|          |        |   |   | •                   |         |                  |
|----------|--------|---|---|---------------------|---------|------------------|
| Ref<br># | Hits   | Search Query                                  | DBs   | Default<br>Operator | Plurals | Time Stamp       |
| S1       | 686    | thermoacoustic or thermo-acoustic             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/06/20 08:00 |
| S2       | 64     | acoustic with (pulsetube or (pulse adj tube)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/06/20 08:01 |
| S3       | 713    | S1 or S2                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/06/20 08:01 |
| S4       | 425065 | burner or flame                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/06/20 08:01 |
| S5       | 181    | S3 and S4                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/06/20 08:17 |
| S6       | 6415   | metal adj fiber                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/06/20 08:02 |
| S7       | 1      | S5 and S6                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/06/20 08:02 |
| S8       | 1388   | (62/6).CCLS.                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO                                   | OR                  | OFF     | 2005/06/20 08:18 |
| S9 ·     | 427    | (60/520).CCLS.                                | US-PGPUB;<br>USPAT;<br>EPO; JPO                                   | OR                  | OFF     | 2005/06/20 08:18 |

| S10 | 1561   | S8 or S9                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/20 08:18 |
|-----|--------|---|---|----|-----|------------------|
| S11 | 2      | S6 and S10                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/20 08:19 |
| S12 | 17     | S3 and S4 and S10                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/20 08:19 |
| S13 | 686    | thermoacoustic or thermo-acoustic             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/20 10:27 |
| S14 |        | acoustic with (pulsetube or (pulse adj tube)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/20 10:27 |
| S15 | 713    | S13 or S14                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/20 10:27 |
| S16 | 425065 | burner or flame                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/20 10:27 |
| S17 | 6415   | metal adj fiber                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/20 10:27 |

| S18 | 181     | S15 and S16                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/20 10:27 |
|-----|---------|--------------------------------|---|----|-----|------------------|
| S19 | 1       | S18 and S17                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/20 10:27 |
| S20 | 181     | S15 and S16                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/20 10:27 |
| S21 | 1388    | (62/6).CCLS.                   | US-PGPUB;<br>USPAT;<br>EPO; JPO                                   | OR | OFF | 2005/06/20 10:27 |
| S22 | 427     | (60/520).CCLS.                 | US-PGPUB;<br>USPAT;<br>EPO; JPO                                   | OR | OFF | 2005/06/20 10:27 |
| S23 | 1561    | S21 or S22                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/20 10:27 |
| S24 | 2       | S17 and S23                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/20 10:27 |
| S25 | 17      | S15 and S16 and S23            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/20 10:27 |
| S26 | 4065235 | orifice or aperture or opening | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | OR | OFF | 2005/06/20 10:29 |
| S27 | 223     | S15 and S26                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | OR | OFF | 2005/06/20 10:28 |

| S28              | 76   | S27 and S16   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF | 2005/06/20 10:31 |
|------------------|------|---|---|------|-----|------------------|
| S29              | 4920 | (homogeneously or evenly) near2<br>(heated or heating or heats) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR . | OFF | 2005/06/20 10:30 |
| S30              | 1    | S15 and S16 and S29   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF | 2005/06/20 10:43 |
| S31              | 1    | S15 and S29   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF | 2005/06/20 10:43 |
| S32 <sup>-</sup> | 14   | S13 and S16 and S21   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF | 2005/06/20 10:44 |